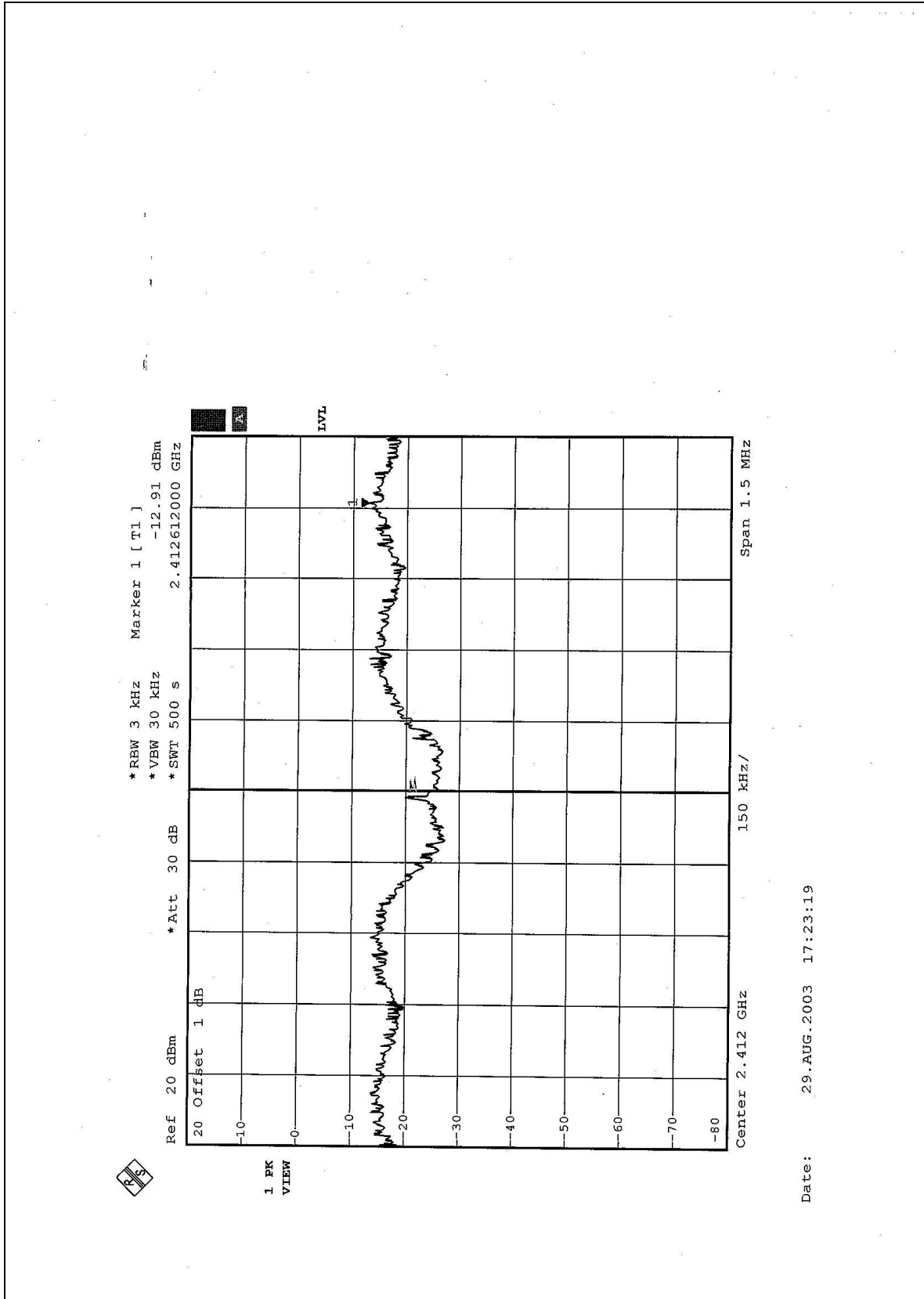




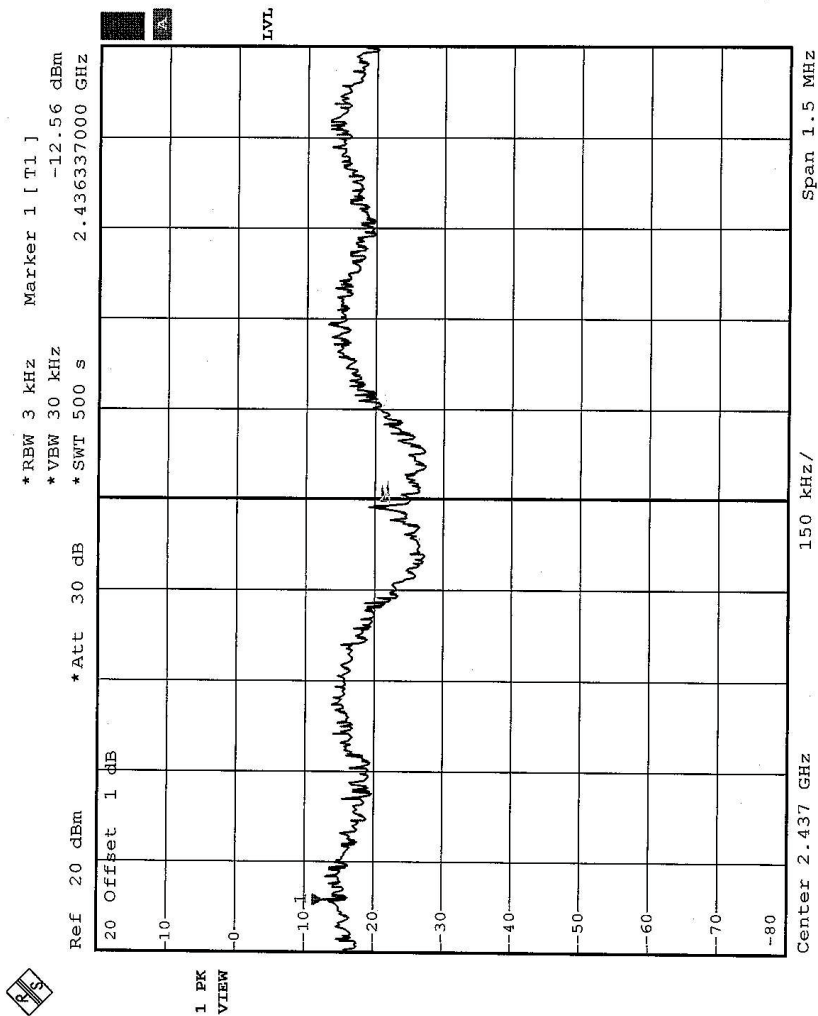
CH1



Date: 29.AUG.2003 17:23:19



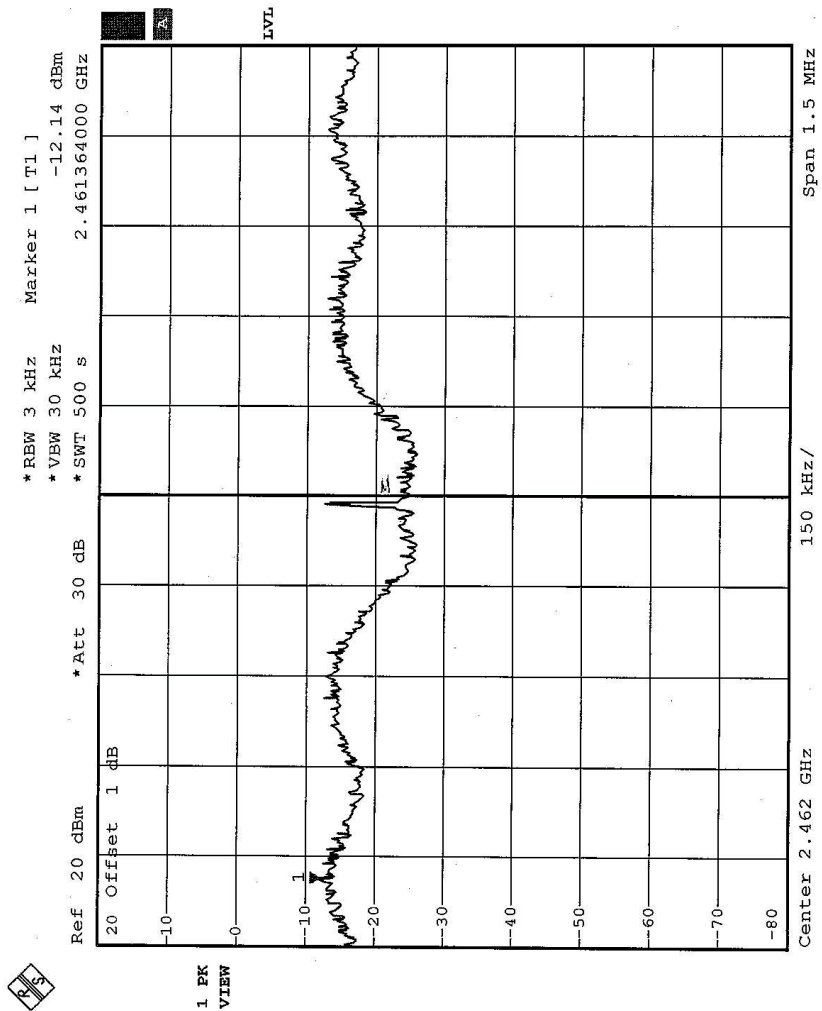
CH6



Date: 29.AUG.2003 17:23:53



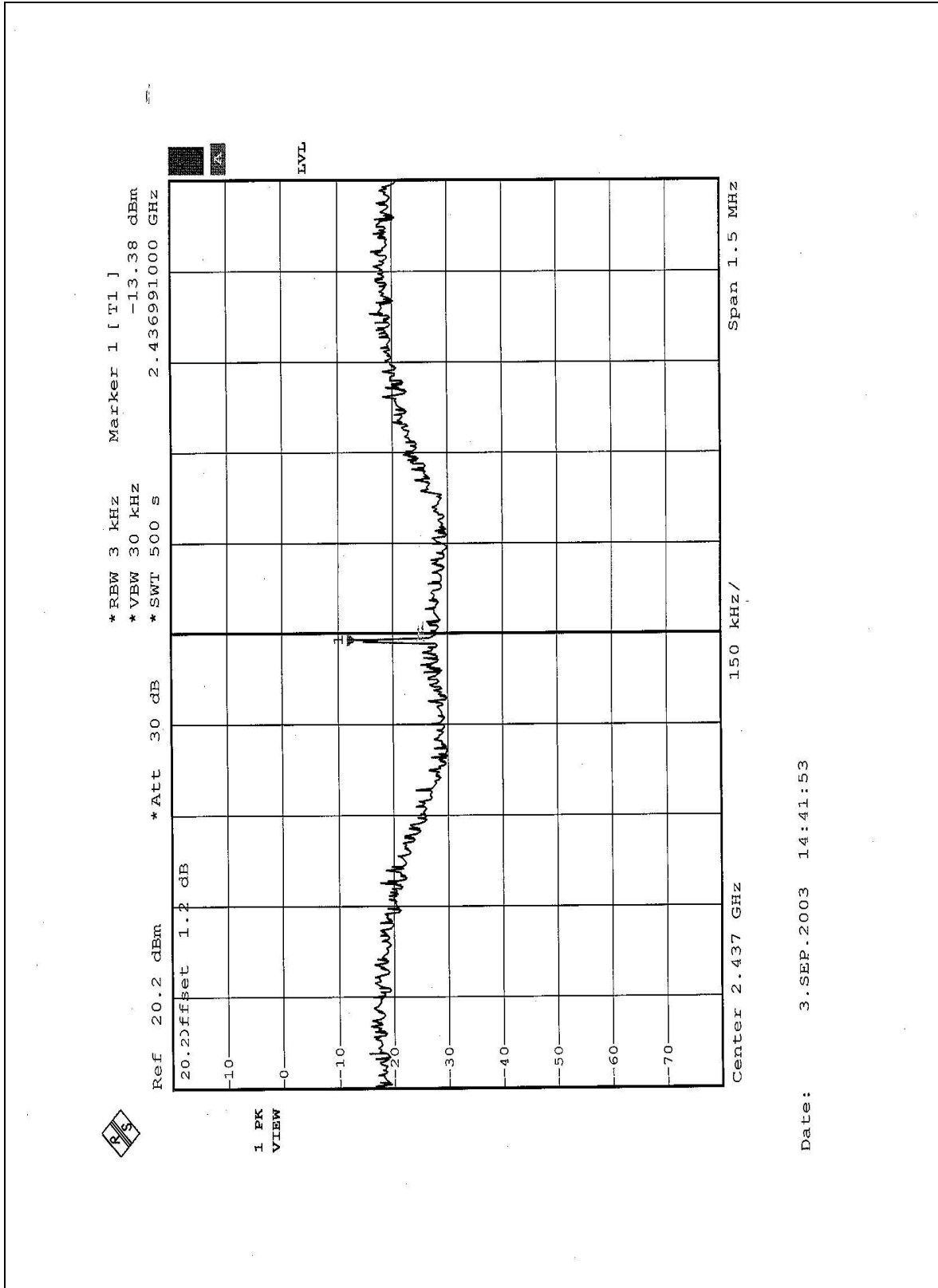
CH11



Date: 29.AUG.2003 17:25:20



### CH6 (Turbo Mode)



Date: 3.SEP.2003 14:41:53



## 4.6 BAND EDGES MEASUREMENT

### 4.6.1 LIMITS OF BAND EDGES MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

### 4.6.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	Aug. 12, 2004

**NOTE:**

The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

### 4.6.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 100 kHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

### 4.6.4 DEVIATION FROM TEST STANDARD

No deviation



#### 4.6.5 EUT OPERATING CONDITION

Same as Item 4.3.6

#### 4.6.6 TEST RESULTS – FOR CCK

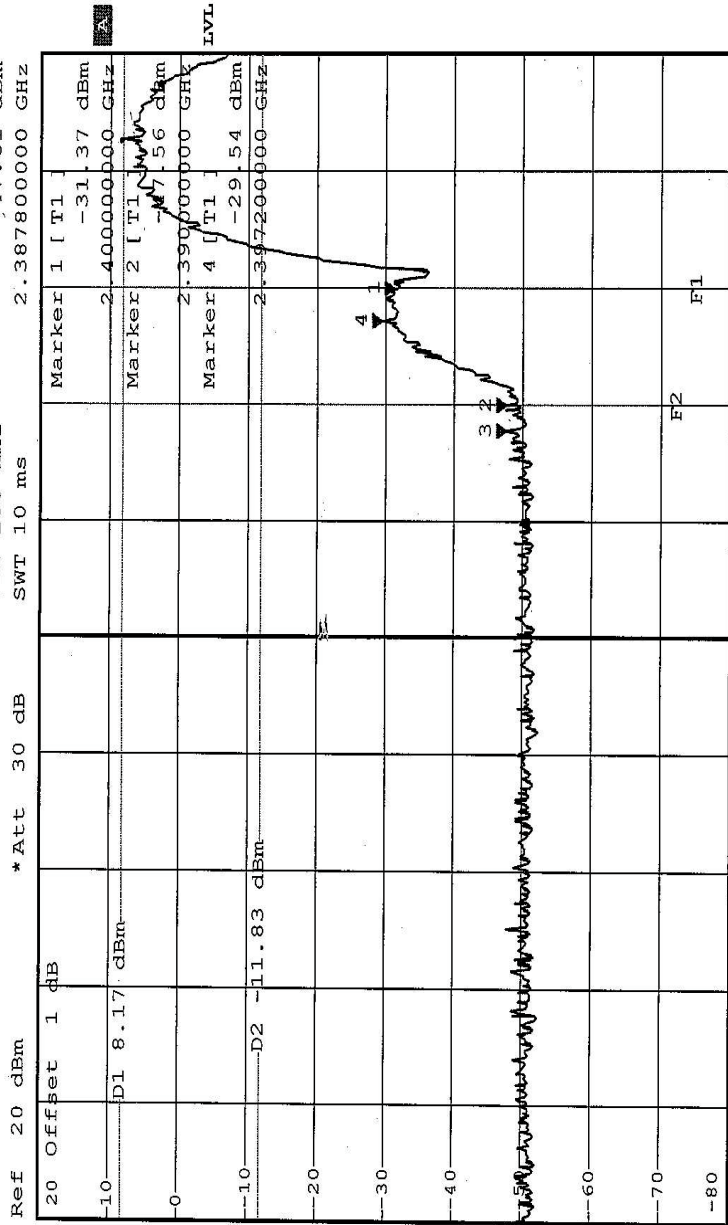
The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, and D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

#### **NOTE:**

The band edge emission plot on the next pages show 55.73dB / 56.07 delta between carrier maximum power and local maximum emission in restrict band (2.3900 / 2.4839GHz). The emission of carrier strength list in the test result of channel 11 at the item 4.2.8 is 108.8dBuV/m, so the maximum field strength in restrict band is  $108.8 - 56.07 = 52.73$ dBuV/m which is under 54dBuV/m limit.



\*RBW 100 kHz  
 \*VBW 100 kHz  
 \*Att 30 dB  
 \*RBW 100 kHz  
 \*VBW 100 kHz  
 \*Att 30 dB  
 \*RBW 100 kHz  
 \*VBW 100 kHz  
 \*Att 30 dB



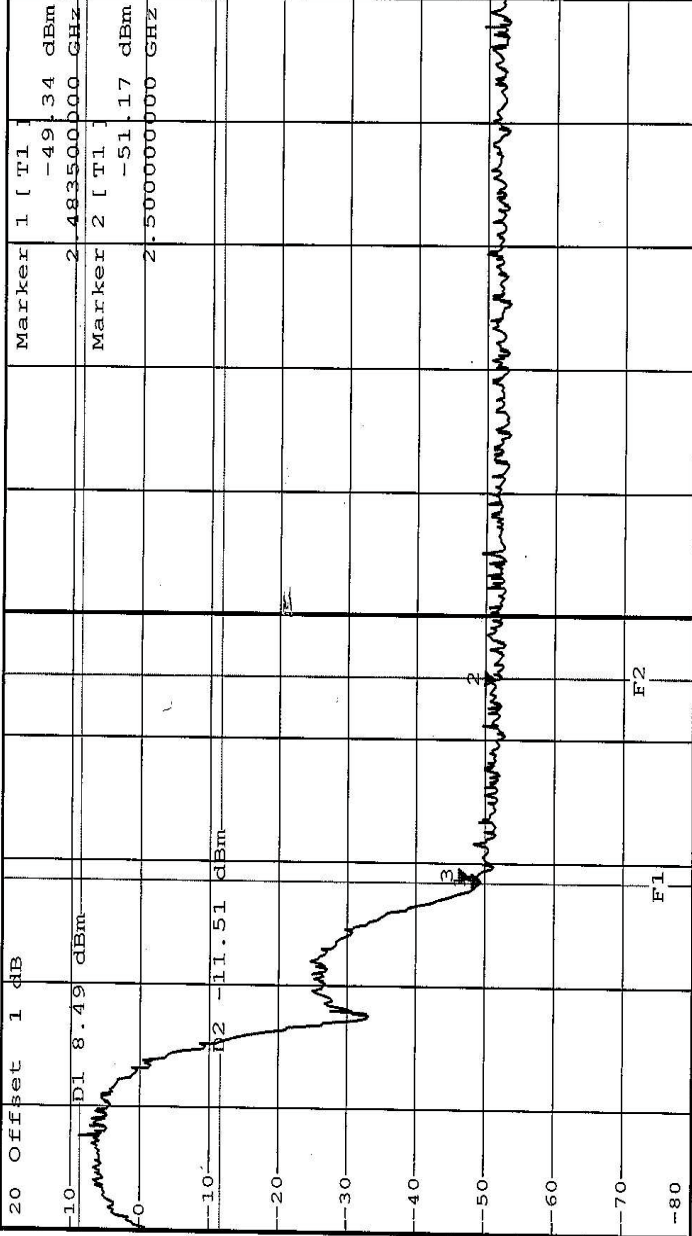
1 PK VIEW

Date: 29.AUG.2003 18:14:36



\* RBW 100 kHz  
 \* VBW 100 kHz  
 \* Att 30 dB  
 \* RBW 100 kHz  
 \* VBW 100 kHz  
 \* Att 30 dB  
 \* RBW 100 kHz  
 \* VBW 100 kHz  
 \* Att 30 dB

Ref 20 dBm  
 Offset 1 dB  
 DI 8.49 dBm  
 Marker 1 [ T1 ]  
 Marker 2 [ T1 ]  
 Marker 3 [ T1 ]  
 2.483500000 GHz  
 2.483900000 GHz  
 2.483900000 GHz



Center 2.505 GHz  
 10 MHz/  
 Span 100 MHz

Date: 29.AUG.2003 18:08:06





#### 4.6.7 TEST RESULTS – FOR OFDM

The spectrum plots are attached on the following 2 pages. D2 line indicates the highest level, and D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

#### **NORMAL MODE:**

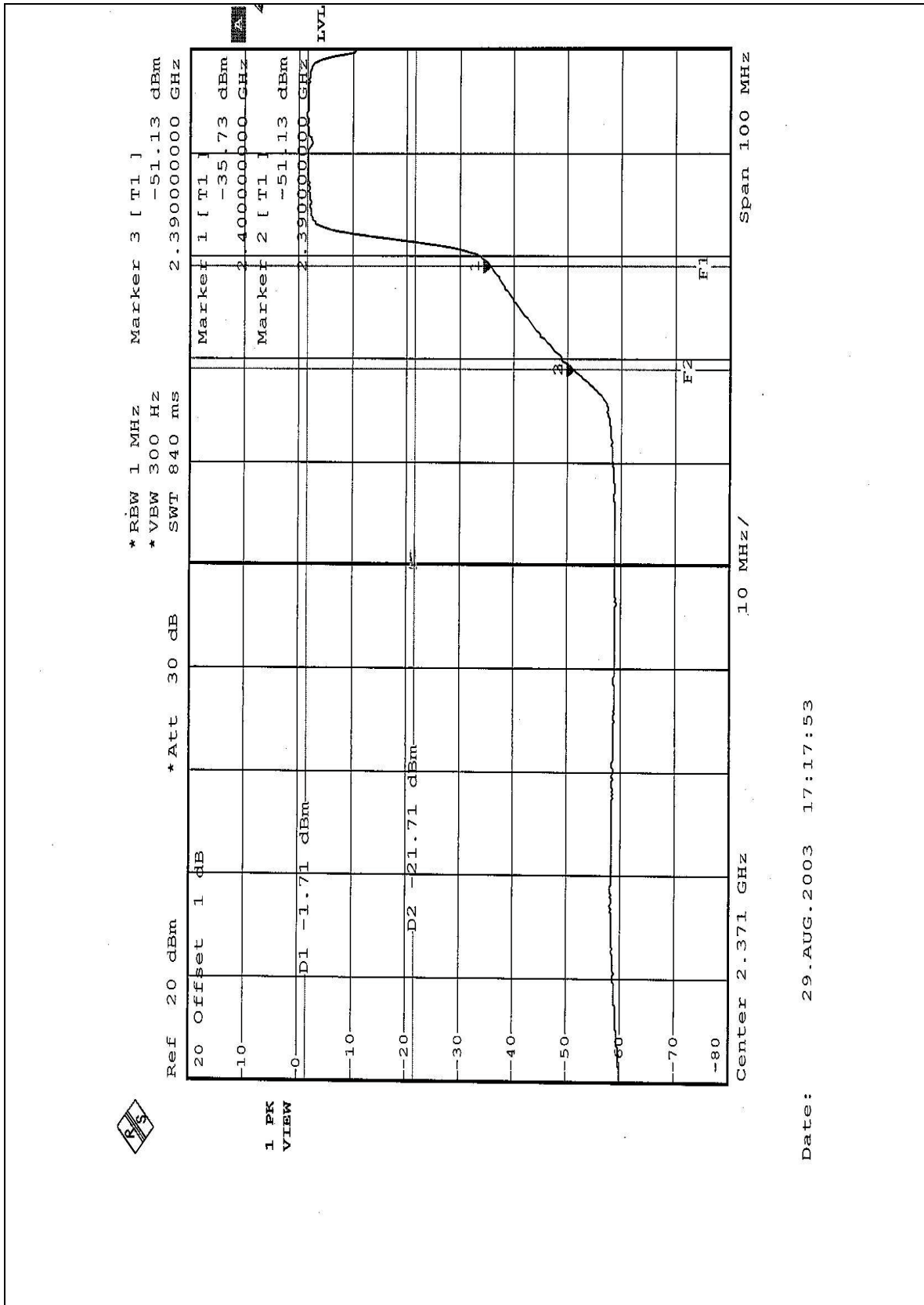
The band edge emission plot on the first and second pages show 49.42 / 47.57dB delta between carrier maximum power and local maximum emission in restrict band (2.3900 / 2.4835GHz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 99.9dBuV/m, so the maximum field strength in restrict band is  $99.9-47.57=52.33$ dBuV/m which is under 54dBuV/m limit.

#### **TURBO MODE:**

The band edge emission plot on the third and fourth pages show 46.70 / 47.08dB delta between carrier maximum power and local maximum emission in restrict band (2.3900 / 2.4840Hz). The emission of carrier strength list in the test result of channel 1 at the item 4.2.8 is 94.90dBuV/m, so the maximum field strength in restrict band is  $94.9-46.70=48.2$ dBuV/m which is under 54dBuV/m limit.



NORMAL MODE:

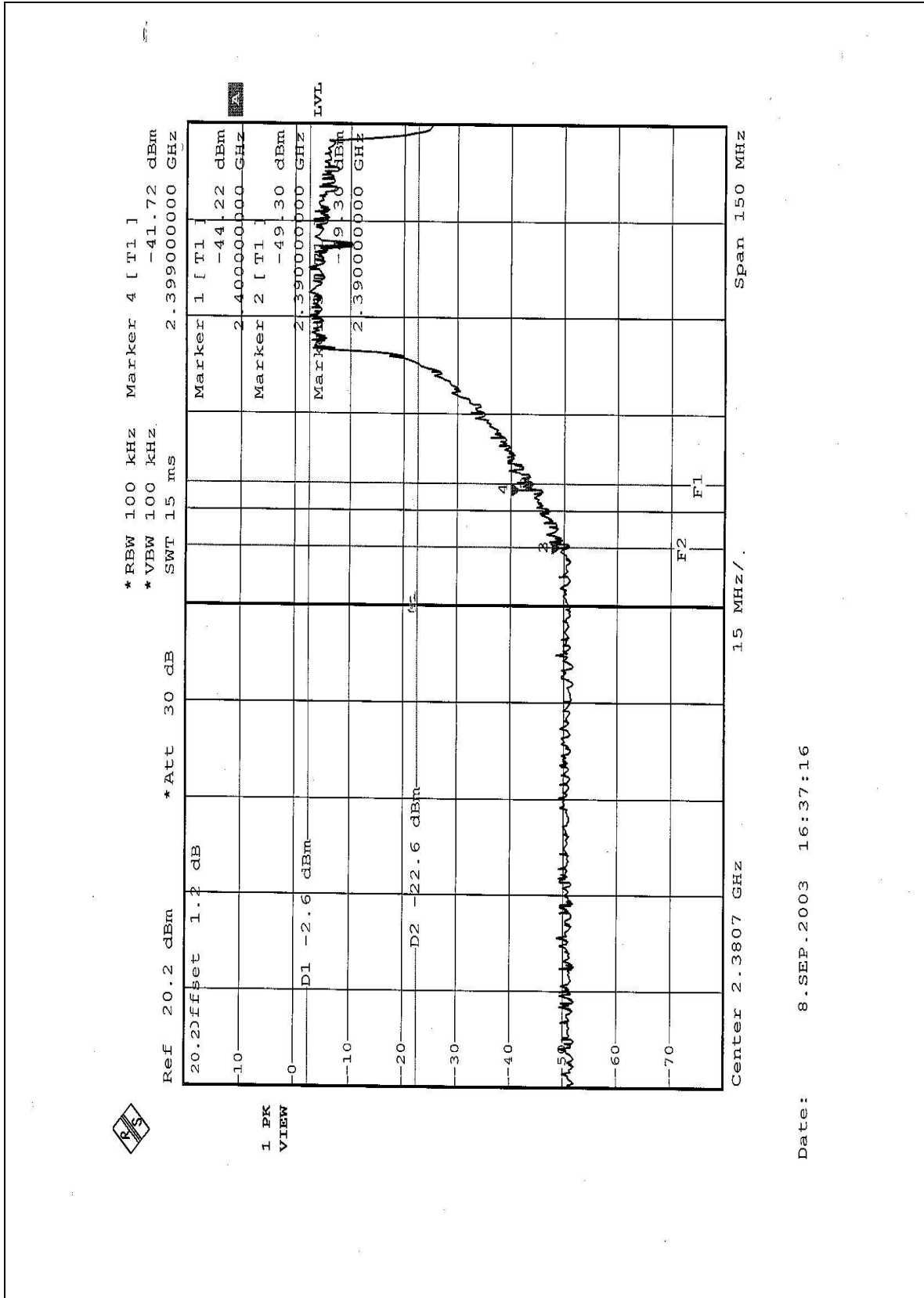


Date: 29.AUG.2003 17:17:53

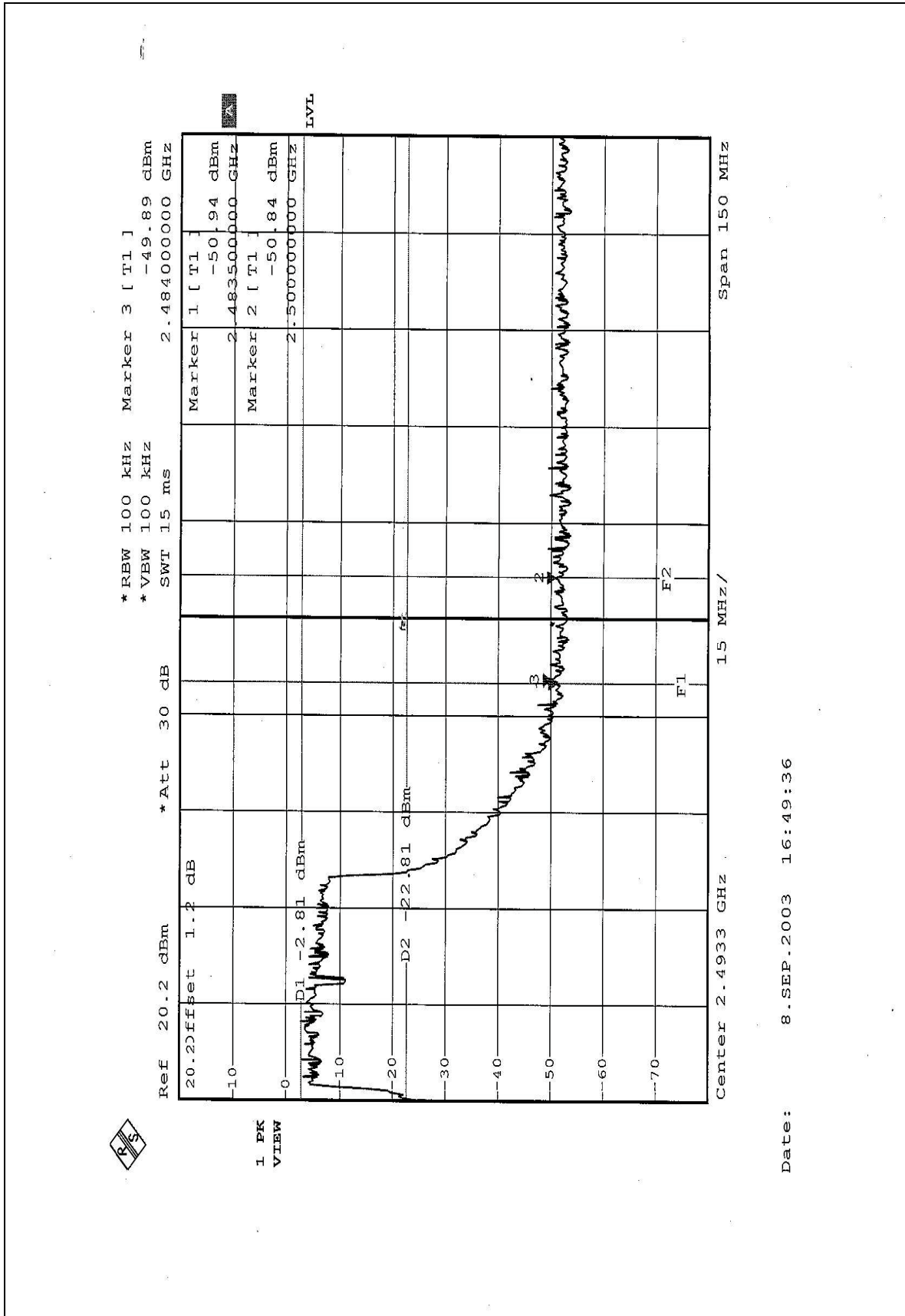




TURBO MODE:



Date: 8.SEP.2003 16:37:16



Date: 8.SEP.2003 16:49:36



## **4.7 ANTENNA REQUIREMENT**

### **4.7.1 STANDARD APPLICABLE**

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### **4.7.2 ANTENNA CONNECTED CONSTRUCTION**

The antenna used in this product is Dipole Antenna with reverse SMA connector. The maximum Gain of the antenna is 2dBi

## 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

### CONDUCTED EMISSION TEST



### RADIATED EMISSION TEST







## 6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

<b>USA</b>	FCC, NVLAP, UL
<b>Germany</b>	TUV Rheinland
<b>Japan</b>	VCCI
<b>New Zealand</b>	MoC
<b>Norway</b>	NEMKO
<b>R.O.C.</b>	BSMI, DGT, CNLA

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

[www.adt.com.tw/index.5/phtml](http://www.adt.com.tw/index.5/phtml).

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.